Dr. N. Nirmalakhandan

Q-75 activated carbon

APR 28 1990

Active carbon

For a very long time I have been curious about the specificity of active sorptive sites on carbon.

Is it a polydisperse population with varied specificity?

Your paper leads me to ask if you know of competitive sorption or displacement expts. with carbon?

I would appreciate any leads you can give me.

John Leckie

Henry RJ +

• HENRY MD—THE EFFECT OF PENICILLIN ON METHYLENE BLUE ADSORPTION ONTO ACTIVATED CHARCOAL
J GEN PHYSL 28(5):415-419 1945 3R

I did "repeat" this expt. circa 1945 but was not happy about it.

07 4/30/90 gvn

"Adsorption from Aqueous Phase by activated carbon: A simplified application of the Solanki-Henry"
N. Nirmalakhandan + R. E. Speece

See Q-75. *

*New Mexico State University.
Vanderbilt University.

Dept Chemistry

screening tool in evaluating the suitability of the adsorption process for the chemical(s) of interest. If suitable then,

Gosman, BA Chimie & Industrie Spec No. 199-203 (1933 Jun)
Study of the adsorbent power of activated charcoal by the polarographic method.

Polarographic analysis of adsorbing power for Me< Blue and H_3O^+ of HCl

"decoloration of MB during anal... ~~m~~ mS of e aOSpU P-r t-rd royne cond.

Henry 28:405 ~~-~~

Seager CD '46

~~Beckman S SB 47~~
~~Elion AL PS 47~~
~~Knoll ME BB 50~~
Tyler A ARP 47

See Eyster 1943 JCCP 21:191 —

cited by Bodine ~~SH~~ '50
* Henry RJ 45 J Gen-Physiol ~~45~~ 28:415-419 1945 (charcoal)
~~McIlwain H Biochem J 45~~
Sevag MG 46 Adv
45 JB
Tsunoda M 51

8/98 cites Eyster.

Henry RJ +

- **HENRY MD**—THE EFFECT OF PENICILLIN ON METHYLENE BLUE ADSORPTION ONTO ACTIVATED CHARCOAL
  J GEN PHYSL 28(5):415-419 45 3R

Cited References--Full Record

Article 1 of 5 NEXT SUMMARY RELATED RECORDS

Studies on the adsorption of sulfapyridine at the solution-alumina interface

Bajpai AK, Rajpoot M, Mishra DD

JOURNAL OF COLLOID AND INTERFACE SCIENCE
187: (1) 96-104 MAR 1 1997

Document type: Article **Language:** English **Cited References:** 31 **Times Cited:** 1

Abstract:
The adsorption of Sulfapyridine (SP) onto the alumina surface has been carried out at room temperature to study the adsorption behavior of SP and its mode of interaction with the surface of alumina particles. It is found that various factors such as concentration of SP solution, required time for adsorption equilibrium, pH of the adsorbate solution, temperature of adsorption medium, presence of ions like PO43-, SO42-, and Cl- affect quantitatively the adsorption of SP. Various adsorption and kinetic parameters such as the adsorption isotherm, adsorption coefficient, rate constants for adsorption and desorption and surface coverage have also been evaluated. The present study is significant because knowledge of the exact interaction between the SP molecules and the alumina surface and the proper choice of experimental condition would be helpful in carrying out an optimum separation of sulfa drug compounds chromatographically. (C) 1997 Academic Press.

Author Keywords:
sulfapyridine, adsorption, kinetics

cites Eyster 1943

KeyWords Plus:
KINETICS, SURFACES

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